

7800 Medusa Street | Oakwood Village | OH 44146 P: (440) 439-7400 | F: (440) 439-7446 | W: agmet1.com

December 8, 2011

#### Via Certified Mail--Return Receipt Requested

Ms. Michelle Kerr, Remedial Project Manager U.S. Environmental Protection Agency-Region 5 Superfund Division (SR-6J) 77 W. Jackson Blvd. Chicago, IL 60604-3590

Re: Response to November 30, 2011, General Notice and Request for Information Regarding Chemetco Facility, Hartford, Illinois

Dear Ms. Kerr:

Pursuant to the November 30, 2011, General Notice and Request for Information, Agmet LLC (formerly doing business as Agmet Metals) submitted its response previously to a June 23, 2011, Information Request. A copy of that response is enclosed with this letter for your convenience.

Agmet strongly believes it has no liability under CERCLA for any condition at the Site. As stated in the previous response to EPA's Information Request, Agmet sold 17.22 tons of material to Chemetco in August, 2001. The material was a non-hazardous tin-lead by-product that was sold to Chemetco to be processed. This was Agmet's only transfer of materials to Chemetco. Chemetco advised Agmet that the recovered tin and lead would be [,and was,] recycled into finished tin and lead metal by Chemetco's related company Midco. As a result, none of this material could have been released into the environment at the Site.

Please remove Agmet from EPA's list of Potentially Responsible Parties.

Thank you.

Dana J. Cassidy

**President & CEO** 



7800 Medusa Street | Oakwood Village | OH 44146 P: (440) 439-7400 | F: (440) 439-7446 | W: agmet1.com

July 21, 2011

Ms. Marsha Adams, Enforcement Specialist U.S. Environmental Protection Agency Remedial Enforcement Support Section 77 W. Jackson Blvd. SR-5J Chicago, IL 60604-3590

Re: Response to Request for Information Regarding Chemetco Facility, Hartford, Illinois

Dear Ms. Adams:

Pursuant to the June 23, 2011 Request for Information, Agmet LLC (formerly doing business as Agmet Metals) herein submits its response to each of the questions set forth in Enclosure 7 of the Request.

#### **INFORMATION REQUEST**

1. (a) Agmet LLC

(b) Dana J. Cassidy, President & CEO of Agmet LLC7800 Medusa StreetOakwood Village, OH 44146

(c) State of Incorporation: Delaware

Agent for service: The Corporation Trust Company

Corporation Trust Center 1209 Orange Street Wilmington, DE 19801

(d)-(f) Agmet Metals Trading, LLC

State of Incorporation: Ohio

Agent for service:

Michael Agin

2559 Cedarwood Road

Pepper Pike, OH 44124

Status:

Active

Glencore Nickel (USA), LLC

State of Incorporation: Delaware

Agent for service:

Corporation Service Company

2711 Centerville Road, Suite 400

Wilmington, DE 19808

Status:

Active

Agmet Metals, Inc.

State of Incorporation: Ohio

Agent for service: Michael Agin

2559 Cedarwood Road Pepper Pike, OH 44124

Status: Active

- 2. Agmet sold 17.22 tons of material to Chemetco in August, 2001. The material was a non-hazardous tin-lead by-product that was sold to Chemetco to be processed. See, customer contract attached and labeled as **Question 2-A**, and estimated invoice attached and labeled as **Question 2-B**. Actual sales price was \$0.01/lb. This was Agmet's only transfer of materials to Chemetco. Chemetco advised Agmet that the recovered tin and lead would be recycled into finished tin and lead metal by Chemetco's related company Midco.
- 3. Agmet had no role at the site.
- 4. Agmet had no activities in relation to the site in addition to the one-time shipment described in #2 above.
- 5. See description of material provided in #2 above. See, bill of lading and scale ticket attached and labeled as **Questions 5 & 6**. Agmet had no role at the site and did not control where waste sent to Chemetco warehouses was ultimately processed/recycled.
- 6. See date and circumstance described in #2 above. The carrier who transported the one-time shipment was Birmingham Nashville. See, bill of lading and scale ticket attached and labeled as **Questions 5 & 6**. See also, scale ticket already in U.S. EPA's possession and included in Enclosure 4 of the Request.
- 7. The transaction was option (1), an outright sale.
- 8. Agmet had no influence over waste disposal or recycling activities at the site.
- 9. Agmet's one-time shipment described in #2 was not refused or returned.
- 10. The material Agmet sold to Chemetco was a by-product Tin-Lead Bath Solids. See, determination of shipping name memo attached and labeled as **Question 10**.
  - (a) The materials were shipped directly to the site.
  - (b) Agmet did not test the material for characteristic metals because as a by-product, the material is exempt from regulation if recycled.
  - (c) See information provided in #2.
  - (d) See, the MSDS for the original chemical components attached and labeled as Question 10(d)-A, and the material profile form attached and labeled as Question 10(d)-B.

#### SIGNED STATEMENT

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Dana J. Cassidy President & CEO

Agmet LLC

Date: 7.21.11

Stephanie - New terms FROM: Joseph E. Schiller

DATE: June 11, 2001

ATTENTION: Laura Shears

COMPANY: Federal-Mogul Corporation

512 Grove St.

Greenville, MI, 48838

NUMBER OF PAGES INCLUDING THIS PAGE: 2

RECYCLABLE MATERIAL: Mixed Nickel Wastes, and Tin/Lead Plating Bath Solids

Dear Ms. Shears:

Agmet is pleased to offer you the following proposal to recycle the three materials described below in detail.

Quantity: As shipments become available.

Delivery: F. O. B. Agmet's Oakwood, Ohio facility at 7800 Medusa St. Items will be in covered steel drums banded on pallets.

Charges and Payments:

### MIXED NICKEL WASTES:

Typically material is 15-25% Ni after calcining with an LOI of 40-80% Analysis:

Charges: If the "as received" nickel content is over 10%, there is no recycling charge. If the "as received" nickel content is below 10%, Federal-Mogul will pay \$50 per drum processing fee to recycle the mixed nickel waste. There is an additional charge of \$2 per drum for each percent that the Nickel content of the calcined product falls below 10%.

#### TIN/LEAD PLATING BATH SOLIDS

Typically material is 10-15% Sn and 2-5% F on an "as received" basis. Analysis:

Charges: The charge will be \$690 per ton, and payment for Sn will be as follows: Deduct 1% of Sn for each % F, and pay 75% of the LME Sn price, averaged for the week of delivery.

Example: The sample provided by Federal Mogul assayed "as received" 13.6% Sn and 3.5% F. (The moisture content was 62%). Using the terms stated above with the LME Sn price of \$2.40/lb., the Sn credit would be:

Credit = 
$$[(13.6 - 3.5)/100] \times 2000 \times 2.40 \times .75 = $363.60$$

The net charge to Federal Mogul would be \$690 - \$363.60 = \$326.40

Settlement: 30 days from invoice.

Other Terms: Weighing, sampling, and assaying will be in accordance with Agmet's standard industry practice.

Please contact me with any questions.

Sincerely,

Joseph E. Schiller

Acceptance by Federal-Mogul

		 Date	
Title			

# AGMET METALS, INC.

Remit to:

# PO BOX 631362

Cincinnati, OH 45263-1362

Phone (440) 439-7400 Fax (440) 439-7446



## Chemetco

Code:	Chemetco				
Our Invoice No.	Your Reference No.	Pick-Up Date	Billing Date	Ship VIA	Acct. Rep.
12512		1-Aug-01	31-Aug-01	Birmingham	D.Cassidy

# Invoice

Plating Solids 8-2681-01	Tin/Lead		Price/LB	Value
Gross	37,660 Drums	56		
Tare	(3,215) Pallets	15	0.0001	3.44
Net	34,445			

NO INVOICE NECESSARY, THEY JUST SEND IN CHECK PER D.C.

Grand Total \$ 3.44

# AGMET METALS, INC.

Remit to:

P.O. Box 631362

Cincinnati, OH 45263-1362

(440) 439-7400 • FAX (440) 439-7446

PAGE 1

CHEMETCO

3976 CHEMETCO LANE, ROUTE 3

HARTFORD

IL 62048

TERMS: NET

y ORDER NUMBER: 12512

ATTN: DENNIS MEYER

OUR INVOICE NO. VOUR RÉFERENCE NO. PICK-UP DATE BILLING DATE SKIP VIA

12512 - 08 × 31 × 81 - 8R I M I NGHAM

INVOICE

1.00 lbs. -

PRICE

EXTENSION

1.00 EA @ 3.44/EA

3.44

SUBTOTAL

3.44

TOTAL

3.44

AGMET METALS, INIS,

Dana J. Cassidy



# Agmet Metals Inc.

7800 MEDUSA STREET • OAKWOOD VILLAGE, OH 44146 TELEPHONE: (440) 439-7400 • FAX: (440) 439-7446

# Internal corporate-MEMO

April 14, 1998

TO: Linda Rupert / Joe Shiller
FROM: Fred Warren
SUBJECT: Federal Mogul by-product shipping information

Dear Colleagues;

Pve exhausted my personal knowledge and had to resort to calling the DOT Information Hot-Line in Washington DC.

The consensus was to use the following as a proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (STANNOUS FLUOBORATE)

CLASS 8

**UN 3264** 

PG II

TIN / LEAD PLATING BATH SOLIDS ON FILTER PAPER WITH FREE LIQUID FOR METAL RECYCLING

1996 NORTH AMERICAN EMERGENCY GUIDE NUMBER # 154

MSDS # (s)

DRUM LABEL REQUIREMENT: CORROSIVE CLASS 8 UN3264
CONTAINS TIN / LEAD SOLIDS

PLACARD REQUIREMENTS:

CORROSIVE 8 (PANEL No.) 3264

Thank you,

Fred

→ OAKWOOD

**2004** 

# **CONTAINS HAZARDOUS MATERIALS**

ASHUI //= BIRMINGHA

8-2681 Shipper's No.

 _	
Alama a a E	A mark at a
(Name of	

7800 Medusa Street, Oakwood Village, Ohio 44146 189Ue of this original tall 5 (440) 439-7400

Carrier's No. 9vs - 15T 2001

From AGMET METALS, INC.

the property described below, in apparent good order, except as noted, marked, consigned, and destined as inclosed below, which said carrier (the word earlier being undirected throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to arisine an this route to said destination, it is, mutually agreed, as to each carrier of all or any of said property over all or any portion of said mutually agreed, as to each carrier of all or any of said property over all or any portion of said mutual to destination, and as to each party at any time interestical in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Leading set forth (1) in Uniform Freight Classifics on in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or bailt if this is a motor carrier shipment.

Consigned to	<u> </u>	CHEMETCO			(Mail or street address	of a ansignee - For	purposes of notifice	ation only
_		HARDFORD	State IL.	Dal	ivary		· · · · · · · · · · · · · · · · · · ·	
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Delivering Ca		15. cmulcHan		Car or Vehicle In	itials/ <u>39</u>	<del></del>	3144	<u>6</u>
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AGMET METALS, INC. 7800 Medusa Street **OAKWOOD VILLAGE, OHIO 44146** 

Per

40 Shipper, Pel Agent, Per

→ OAKWOOD

859

TRACTOR NO. 1397	DATE	8-1-01
TRAILER NO. 531441	FLAT VAN Q	
CARRIER BRIMINGHAN MASKULLE	MSDS Z	7 . DUT (4-
ACCOUNT CHEMETED - ILL	INITIALS	<u> </u>
LOT # 8-2681	1397 ID. HO.	12:34 PM AUG 31 2001
MATERIAL TIM /LEAD PLATE BATL SOLOS ON IT LITT PAPER . I.D.	34140 lb GR	
ON IN LITTO PAPER . I.D.	1997 ID. HO.	12:52 PM AUG 01 2001
COUNT 56 DR / 15-PAILETS • GROSS	71800 lb GR	
COMMENTS: • TARE	34140 16 TR RE	CALLED 2001
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they paly lg. * DANA		AUE o 2011
Chemetro		
	8-2681	Nº 19377

P02

P002/005

Material Safety Data Sheet

MSDS Number: WS-850

Page 1 of d

KESTER SOLDER (L) 515 E. TOUHY AVENUE DES PLAINES, IL 60018

Date Prepared:

18 May 1993

Supersedes:

27 May 1992

Prepared By:

D. Bernier

Telephone Number For Information. (708) 287-1600

CHEMTREC 24-Haus Emergency Telephone Number: (500) 424-9300

# SECTION 1 - PRODUCT IDENTIFICATION AND USE WS-850 SOLDERPASTE Product Name And Number As Used On Label PRODUCT USE: Mixture of 90% solder powder with soldering flux for electrical or electronic applications. Health: Flammability: Reactivity: Special: NFPA Rating: Reactivity: Personal Protection: Flammability: X HMIS Rating: Health: DOT: Not Regulated. WHMIS: Class D. Division 2, Subdivision B TDG: Packaging Group III, Class 9.2

NA = Not Applicable

NE = Not Established

UN W Unknown

# SECTION 2 - INGREDIENTS AND HAZARDS

HAZARDOUS INGREDIENTS 1% or greater CARCINOGENS 0.1% or greater	C.A.S.		OSHA	ACGIH TLV
CARCINOGENS U.19 OF grazier	Number	%	PEL mg/m*3	TWA mg/m <sup>-</sup> 3
Lead	7439-92-1 •	33.3	0.05	0.15
Tin	7440-31-5	\$6.7	2.0	2.0
Modified Rosin	61791-17-1	3	NE	NE
Hexylene Glycol	107-41-5	<1	NE	C125
NON-HAZARDOUS INGREDIENTS		. <u></u>	<u>.                                    </u>	
Nonionio Surfactants	68439-49-6	<1	NE	NE
Ethoxylated Amides	68155-24-8	4	NE	NE

A This Chemical is subject to the reporting requirements of Section 313 of This III of the Superfund Amendment and Resultarization Aut

Profile # 3101 com-ky/ Inc.

KESTER SOLDER

M8DS Number:

WS-850

Date Prepared:

18-May 1993

# SECTION 3 - PHYSICAL DATA

Boiling Point (760 mm Hg):

NAF NA° C Specific Ciravity (water = 1 at 25 °C): >1

Vapor Pressure (mm Hg st 20 °C): NA

NA°C NA'F

Vapor Density (air=1): NA

Evaporation Rate (butyl acetale=1):

< 0.1

% Volatile(by volume): 0

Solubility in Water (% by weight): "10

Malting Point:

Volatile Organic Compound (VOC):

. O g/liter

Odor Threshold: NE

Appearance and Odor:

Gray metallic pasts with mild edor.

## SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.O.C.):

pH: NA

>200°F >93.3°C

Auto-Ignition Temperature:

>440 °F > 226 °C

Flammability Limits % by volume in air

LEL:NE

**UEL: NE** 

Extinguishing Media: ( ) WATER (X) CARBON DIOXIDE ( ) ALCOHOL FOAM

(X) DRY CHEMICAL

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lead oxide furnas.

Polosion Sepsitivity:

Impact - None Identified

Static discharge - ( ) Yes

(X) No

Special Pifefighting Procedures: West self-contained breathing apparatus if this material is in the vicinity of a fire.

Unusual Fire and Explosion Hazards:

None.

# SECTION 5 - REACTIVITY HAZARD DATA

STABILITY (X) Stable ( ) Unstable

Conditions to Avoid: None

incompatibility(materials to avoid): Strong acids, strong oxidizers.

Hazardous Decomposition Products:

When heated to soldering temperatures, the solvents are evaporated and thermal

degradation products may include aliphatic aldehydes and acids. No lead is detected in fumes from

soldaring below 1000°F( \$37°C).

#### HAZARDOUS POLYMERIZATION:

) May Occur

Conditions To Avoid: NE

X ) Will Not Occur

NO.749 P004/005

KESTER SOLDER

MSDS Number: WS-850

Page 3 of 4

Dale Prepared:

18 May 1993

# SECTION 6 - HEALTH HAZARD DATA

EXPOSURE LIMITS:

Ingested LD(50):

NE a/Kg

Inhaled LC(50):

NE g/Ka

Primitry exposure during soldering is to evaporated solvent which may contain droplets of rosin and/ or other organic decomposition products.

PRIMARY ROUTES OF ENTRY: (

) Skin

(X) Eyes

(X) Inhalation

(X) Ingestion

TARGET ORGANS: Flux fumes: eyes, mucous membranes and respiratory system. lagestion of lead metal can affect

kidneys, gastrointestinal, reproductive and neurological systems.

EFFECTS OF ACUTE (severe short-term) EXPOSURE:

INHALATION:

Flux fumes during soldering may cause irritation and damage of mucous membranes

and respiratory system.

SKIN CONTACT:

Possible local irritation.

SKIN ABSORPTION: None

EYE CONTACT:

Irritation from contact with smoke from soldering.

INGESTION:

Most of the solderpaste will pass through the body unabsorbed. Lead that is absorbed is

caught by the liver and, in part, excreted in the bile.

EFFECTS OF CHRONIC (prolonged) EXPOSURE: Prolonged or repeated contact with skin can cause a rash. Breathing fumes during soldering may cause respiratory irritation, headache and irritation of mucous membranes. Repeated ingestion of lead can result in systemic poisoning.

Medical Conditions Generally Aggravated by Exposure: Pre-existing conditions of the lungs, diseases of the blood and blood-forming organs, kidneys, nerves and possibly reproductive system.

CARCINOGEN

) NTP

) OSHA

(9) JARC

) Not Listed

EMERGENCY FIRST AID PROCEDURES: Seek medical assistance for further treatment, observation and support if needed

EYE CONTACT:

Flush eyes with plenty of water and get medical attention.

SKIN CONTACT: Wash thoroughly with soap and water.

INHALATION:

Remove victim to fresh air.

INGESTION:

Gaztric lavage ( stomach pumping ) if physician advises. Get prompt medical altention.

KESTER SOLDER

MSDS Number: WS-850

Page 4 of 4

-- Date Prepared: -- 18 May 1993

# SECTION 7 - PROCEDURES FOR MATERIAL CONTROL

Steps to be Taken If Material Is Spilled Or Released: Scoop up paste and deposit in appropriate containers. Clean up residual with isopropanol or detergent water.

Waste Disposal Methods:

Soldernaste can be melted to reclaim the solder metal. Containers and extracted flux are

hazardous whate.

CAUTION: Empty containers may contain product residue. Observe all label precautions.

Store at or pear 70°F( 21°C) in closed constiners. Wash Precautions to be Taken in Handling and Storage: hands after handling sulderpaste and before sating of smoking. Care should be taken to remove solderpaste from under fingernails.

# **SECTION 8 - PROTECTIVE MEASURES**

Respiratory Protection: Usually not required. When ventilation is not adequate to remove smoke from the breathing zone, a partridge type respirator should be worn.

Protective Gloves: Plastic or rubber gloves where

Eye Protection: Safety glasses especially during soldering.

necessary to avoid akin contact.

KENTILATION TO BE USED:

Provide adequate exhaust ventifation (general and / or local) to meet TLV requirements

Other Protective Clothing and Equipment:

Do not wear contaminated clothing or shoes home.

Hygienic Work Practices: Wash hands thoroughly after handling solderpaste.

# SECTION 9 - ADDITIONAL INFORMATION

if the solder contains lead, these precautions are applicable.

This product contains lead which is known to the State of California to cause cancer, birth defects or other reproductive harm.

Lead and his compounds have been placed in Class BZ, probably carcinogenic to humans by USEPA.

IARC has placed lead and its compounds in Class 2B, possibly carcinogenic to humans.

The information contained berein is based on data considered accurate and is offered solely for information. consideration and investigation. Kester Solder extends no warranties, makes no representations and assumes ho responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheat relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by or under the disection of technically qualified Hazardous Materials information System (Wrimis), require that employees must be trialled as a louise a Material Safety Data Sheet as a source for bazard information.

Sept. 1986

EMERGENCY PHONE NUMBER

(201) 455-3700



PRODUCT SAFETY
DATA SHEET

#### LEAD FLUOBORATE SOLUTION

784,7698

A. GENERAL INFORMATION		Den Fores	>
TRADE NAME (COMMON NAME)		ZOCAS NO. GENERAL PRODUCT CODE	*
LEAD FLUOBORATE SOLUTION		13814-96-5	
CHEMICAL NAME AND/OH SYNONYM			
Lead Fluoborate in water [Assay: 50-52% Pb(BF4)2]	Synonym: Lead fluoroborate; Lea Borate (1-), Tetrafluor		
FORMULA	······································	MOLECULAR WEIGHT	
Pb(BF4)2 + H2O		380.81/18.02	
ADOPIESS (	No., STHEET, GITY, STATE AND ZIP CODE!	·····	
GENERAL CHEMICAL CORPORA	TION		
CN 1829 Morristown, N.J. 07960-1829			
CONTACT	PHONE NUMBER	LAST ISSUE DATE CURRENT ISSUE DATE	_

(201) 455-5630

#### B. FIRST AID MEASURES

Director Environmental Matters

Eyes: Flush eyes immediately for 15-20 minutes with large amounts of water,

holding eyelids open to allow thorough flushing (use water only). Seek medical

evaluation of potential eye burns.

Skin: Promptly wash with plenty of soap and water, then flush with water until all chemical is removed. Treat as an acid burn, if severe, and seek medical aid. Promptly remove contaminated clothing and wash before reuse.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen, if a qualified operator is available. If not breathing, give artificial respiration, preferably mouth-to-mouth. If symptoms persist, get medical help.

Ingestion: Call a physician at once. Do not induce vomiting. If conscious, give several glasses of milk or several ounces of milk of magnesia, if available; otherwise, give large quantities of water and keep patient warm and quiet.

#### C. HAZARDS INFORMATION

#### HEALTH

#### INHALATION

Mist inhalation can cause headache, cramps, pain in legs, coma. Chronic exposure may damage the central and peripheral nervous system.

#### INGESTION

Symptoms include: Matallic taste, abdominal pain, vomiting, diarrhea, collapse, convulsions and coma. Fatal dose (human) is estimated to be 0.5 gram of absorbed lead. Hypocalcemia, possibly severe or fatal, may occur due to the fluoride content, which can precipitate calcium stored in the body.

#### SKIN

Liquid contact causes irritation, Prolonged contact will intensify this condition and may cause burns.

#### EYES

Liquid contact causes irritation, possibly severe, and burns may result. Mists will also irritate.

PERMISSIBLE CONCENTRATION: AIR

(Lead and its Inorganic Compounds)

RIOLOGICAL

Action Level:

ACGIH/TLV: 0.15 mg/cu.m. (dusts/fumes, as Pb)

OSHA/TWA: 0.2 mg/cu,m. (as Pb)

See Section K

UNUSUAL CHRONIC TOXICITY

Extended inhalation of mist may cause some of the chronic symptoms noted from experience with lead fumes and dust. Among these are metallic taste, loss of appetite, indigestion, nausea, vomiting, constipation, abdominal cramps, nervousness, and insomnia. See, also, Section K.

CC124 344 (11/84)

NO-NOT DETERMINED

NA = NOT APPLICABLE

FIRE AND EDLO

N.A. OC AUTO MINITION FLASH FORT

OC FLAMMABLE LIMITS IN AIR IN BY VOL.

Not flammable DOMENOUP DELENCO

Not applicable

LOWER - Not applicable

UPPER - Not applicable

UNUSUAL FIRE AND EXPERIEN HAZARDS

At or above the bailing point (>100°C), the solution gives off toxic mist.

#### FIRE EXTINGUISH AND ABOUT MECHANISM

Use form, carbon dioxide or dry chemical. Product itself is nonflammable.

#### FIRE EXTINGUISHING AGENTS TO AVOID

Do not use water stream directly on material itself. Use water spray to absorb or disperse vapors.

#### SPECIAL FIRE PRINTING PRICAUTIONS

Avoid breaking vapors and furnes from burning material, Avoid bodily contact with the material. Wear self-contained breathing apparatus/approved by NIOSH. If contact with the material is anticipated, wear full protective clothing. Use water spray to keep fire-exposed containers cool.

#### VENTILATION

If misty-conditions prevail, provide local exhaust ventilation, or a ventilated closed system (e.g., hood). Natural ventilation is normally adaquate in the absence of misty conditions.

#### NORMAL HAMPLING

Do not get in eyes, on skin or clothing. Avoid breathing mist, if formed, Observe scrupulous personal hygiene and good housekeeping. preathes. Wash thoroughly after handling. Use with adequate ventilation and do not eat or smoke while handling.

Store in a dry, well-ventilated area, out of the sun, away from heat and food products. Keep containers tightly closed and protect from physical damage. Periodically inspect drums and storage conditions.

#### SPILL OR LEAR JALMEYS WEAR PERSONAL PROTECTIVE EQUIPMENT SECTION EL

Contain split with readily evallable material (earth, sand, etc.). Using caution, thush with water to dilute spill or neutralize it with alkall such as sodium carbonate. Keep out of sawer. Mon or pump up into suitable container, cover and label for storage and later disposal (see Wests Disposal, Section 1).

SPECIAL: PRECAUTIONS PROCEDURES LABEL INSTRUCTIONS

SIGNAL WORD - DANGER!

This solution is corrective to aluminum. Do not reuse container when empty. Persons exposed to mist inhalation or other contact should have modical surveillance. Regular safety training is recommended.

to hatel or daily

RESPIRATORY MOTESTION of misty conditions prevail and concentration is greater than TLV but under 3.5 mg(Pb)/m3, wear a MIOSH-approved; high-efficiency particulate respirator. This may be used up to 2.5 mg(Pb)/m3, if a full facepiece is added. For very high concentrations (> 50 mg(Pb)/m<sup>3</sup>], use a self-contained or supplied-air breathing system with full facepiece operated in presidentiand mode, approved by NIOSH.

#### EYEL AND PACE

Under moritial working conditions, wear chemical safety goggles; add a full-face plastic shield if solution may be splashed or sprayed, and there is any possibility of liquid contacting the eyes. Do not wear contact lenses.

Wear profective rubber gloves and protective clothing, if there is repeated or prolonged contact with liquid. Remove promptly any contaminated items of clothing and wash before reuse. Do not take home work clothes or shoes. Shower after work and change any clathing that may have been contaminated.

#### OTHER CLOTHING AND BULLWARM

Neutralizing supplies and equipment, if called for by pre-planned spill or leak procedures. Provide ayawash stations and quick-drench shower facilities near work areas.

- PROPRIETARY - TRACE SECRET

F PHYSICAL	DATA )		. )	
MATERIAL IS IAT NOR	MAL CONDITIONS):	APPEARANCE AND ODOR		
55 LIQUID	SOLID GAS	Colorless liquid with relatively no od	lor.	
BOILING POINT	>100			VAPOR DENSITY
MELTING POIN	τ <0	(liquid) 1.75 (approx.)		Not applicable (water vapor only)
SULUBILITY IN WATER (% by Weight)	Complete	Unknown, but estimated to be acidic		VAPOR PRESSURE (PSIG)
EVAPORATION RATE		% VOLATILES BY VOLUME		
(Butyl Acetate = 11 🔲	(Ether = 1) □ applicable	(At 20°C) Not applicable		
G. REACTIVITY	DATA			
STABILITY		CONDITIONS TO AVOID		
UNSTABLE	D STABLE	Evaporation to dryness with sustained	heating (	as in an accidental fire).
INCOMPATIBILITY (MAT	ERIALS TO AVOID		<del> </del>	
	arbide; fluorine; water-re	active materials.		
HAZARDOUS DECOMPOS	ITION PRODUCTS			
	or above bolling point g	ves off toxic mist.		
	f evaporated to dryness,			
HAZARDOUS POLYMERIZ	ATION	CONDITIONS TO AVOID		
MAY OCCUR	3 WILL NOT OCCU!	None known.		
H. HAZARDOUS	INGREDIENTS (Mixtu	es Only)		
	MATERIAL OR COM	ONENT/C.A.S. #	WT.%	HAZARD DATA (SEE SECT. J)
	Not appl	cable		
		•		
			İ	
		•		
			ſ	1

CC124-344 (11/84)

### 1 . ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXIGITY	OCTANOL/WATER PARTITION COEFFICIENT UNKNOWN	
Degradability: N.A. (inorganic)	Challerin	
Aguatic toxicity: No data found.		
PA HAZARDOUS SUBSTANCE? TO IF SO, REPORTABLE QUANTITY	Y: 5000 # (dry basis) 9800 (as is basis)	40 CFR 116-117
ASTE DISPOSAL METHODS IDISPOSER MUST COMPLY WITH PEDERAL, STATE AND I Waste may be neutralized with caution, using any of the following		701 601110
Disposal of waste lead fluoborate solution may be subject to federal operations in terms of applicable federal, state and local laws and regulatore discharging or disposing of waste material.	al, state and local regulations. Users should in	eview their
rcha Status of <u>Unuseo Material IF Discanded:</u> Hazerdous waste (lead, EP toxicity) il discarded	HAZARDOUS WASTE NUMBER: (IF APPLICABLE)	40 CP n 261

#### J. REFERENCES

TWA: OSHA Standard, 29 CFR 1910 (1982), "Z List".

TLV: ACGIH 1984-85 List: "Threshold Limit Values for Chemical Substances. . ."

NIOSH Registry (RTECS), 1981-82, Accession No. ED 2700000.

Biological Action Levels: See Section K below.

REGULATORY STANDARDS

D.O.T. CLASSIFICATION. ORM-8

D.O.T. Hazardous Materials Table: 49 CFR 172.101.

D.O.T. Hazardous Materials Table: 49 CFR 172.101.

GENERAL

(a) Dreisbach, R.H., "Handbook of Poisoning", 10th ed., 1980, Lange Medical Publications, Los Altos, CA.

(b) NIOSH Criteria Document: "Occupational Exposure to Inorganic Fluorides", 1977, No. 78-158.

(c) NIOSH Criteria Document: "Occupational Exposure to Inorganic Fluorides", 1975-78-245-892, NTIS.

(d) Patry's Industrial Hygiene and Toxicology, 3rd ed., 1981-82, Vol. 24, pp. 1687-1725.

(e) NIOSH/OSHA: "Pocket Guide to Chemical Hazards", 1978 (8/90 printing).

(f) NFPA Manual 491 M, "Hazardous Chemical Hazards", 1975, 8th ed., 1984.

(g) Assoc. of American Railroads: "Emergency Handling of Hazardous Materials in Surface Transportation," 1981.

#### K ADDITIONAL INFORMATION

SECTION C - HAZARDS INFORMATION (Health)

Permissible Concentration: Air - continued

TWA/TLV for "Fluorides, as F": OSHA/TWA: 2.5 mg/m3 (as F), ACG/H/TLV: the same.

Biological Action Levels:

Fluorides: 7 mg/L urinary fluoride at end of 8-hr. workshift, corrected to sp. gr. of 1.024, (Ref.; Allied Corp., Chemical Sector; value in use at Metropolis, IL, plant.)

Lead (Inorganic Compounds): OSHA Lead Standard mandates medical removal at 60 micrograms/ 100 mL blood lead. See OSHA Lead Standard for further details.

Unusual Chronic Toxicity - continued

Excess lead absorption may damage the central and peripheral nervous system and the kidneys. Chronic exposure to <u>fluorides</u> may damage the kidney and cause fluorosis. Excess exposure to <u>lead</u> can impair the formation of blood cells; in addition, the fetus of pregnant women workers may be at increased risk, because <u>lead</u> is able to traverse the placenta barrier and enter the blood stream of the fetus.

IARC Carcinogenicity Assessment (Lead and Lead Cpds.): "Inadequate" (humans): "Sufficient" (animals — for some saits): "Inadequate" (short-term tests). Ref. IARC Monographs, Suppl. 4, 1982.

PSDS FILE . GC 3045

THE PRODUCT SAFETY DATA SHELT IS OFFERED SOLELY FOR YOUR INFORMATION CONSIDERATION AND INCOSTRICTION.

COMEDIAL COMMICAL CORRECTATION PROVIDED NO WARRANTIES TO THE RESPONDENCED AND ASSUMES NO RECONSIDERY FOR THE ACCULARY DRICCALL FEMERS OF THE DATA CONTAINED HERRIN.

# NOTICE

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS # Chemical Name % by weight

Lead Compounds 51

This information must be included in all MSDSs that are copied and distributed for this product.



### STANNOUS FLUOBORATE SOLUTION

PRODUCT SAFE IY

A GENERAL INFORMATION	TIN FLUOBORATE	2	Per 05
TRADE NAME (COMMON NAME)		BCAS W CE	NERAL PRODUCT CODE
STANNOUS FLUOBORATE SOLUTION		138	314-97-6
CHEMICAL NAME AND/OR SYNONYM			
Stannous Fluoborate, aqueous solution [Assay: 60-52% Sn(BF4)2]	Synonym: Tin Fluoborate Solution		
FORMULA		+SLECULA!	T MERSHT
Sn(BF4)2 in water			292.21
GENERAL CHEMICAL CORPORATION CN 1829	REET, CITY, STATE AND ZIP COCE:	····	
Marristown, N.J. 07960-1829			
CONTACT	PHONE NUMBER	LAST ISSUE DATE	CUPAE'.TISSUS DE LE
Disastas Environment Matters	1 (201) 466,5640	:	Sec. 1004

#### B FIRST AID MEASURES

Eyes: Flush eyes immediately for 15-20 minutes with large amounts of water, holding eyelids open to allow thorough flushing (use water only). Seek medical evaluation of potential corneal damage.

(201) 455-3700

ENERGENCY PHONE NUMBER

Skin: Promptly wash with planty of soap and water, then flush with water until all chemical is removed. Get medical attention for any irritation. Remove any contaminated clothing and wash before reuse.

Inhalation: Remove to fresh air. If breathing is difficult, give exygen if a qualified operator is available. If not breathing, give artificial respiration, preferably mouth-to-mouth. If symptoms persist, get medical help.

Ingestion: Do not induce vomiting. If conscious, give several glasses of milk or other calcium-containing liquids, or several ounces of milk of magnesia, if available; otherwise, give large quantities of water and arrange for immediate medical help.

#### C. HAZAROS INFORMATION

HEALTH Inhalation of mist may irritate mucous membranes, nose, throat and lungs. May cause severe damage to mouth, esophagus, stomach. May be fatal. May cause kidney damage and hypocalcemia, possibly severe, due to the fluoride content, which precipitates calcium stored in the body. Estimated fatal dose for solute is 5 grams. May cause irritation and/or burns (especially with prolonged contact). EYES May cause severe irritation and/or corneal damage (burns). PERMISSIBLE CONCENTRATION AIR BIOLOGICAL. Action Level: OSHA/TWA: 2.5 mg/m<sup>3</sup> (Fluoride, as F) 7 mg/L urinary fluoride at end of 8-hr. ACGIH/TLVs: the same 2 mg/m3 (Inorg, Cpds, as Sn) workshift, corrected to sp. gr. of 1.024. UNUSUAL CHRONIC TOXICITY

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See Section\_K.\_.

NO NOT OF TERMINED

74 YOT APPLICABLE

# E. HAZARDS (Cont.)

FLASH POINT	N.A. °C	AUTO IGNITION TEMPERATURE	DC FLAMMABLE LIMITSIN AIR IS BY V	OL.)		
Not flam	nmable  [] CLOSED CLP	Not applicable	LOWER - Not applicable	UPPER - Not applicable		
i	NU EXPLOSION HAZ					
High temperatures yield mists containing toxic stannous riuoborate, a corrosive agent on skin and so ne metals.						

#### D. PRECAUTIONS/PROCEDURES

#### FIRE EXTINGUISHING AGENTS RECOMMENDED

Although not flammable itself, if involved in a fire use dry chemical, carbon dioxide or foam.

#### FIRE EXTINGUISHING AGENTS TO AVOID

Do not use water stream directly on material itself. Use water spray to absorb or disperse vapors.

#### SPECIAL FIRE FIGHTING PRECAUTIONS

Avoid breathing vapors and avoid bodily contact with the material. Firefighters should wear self-contained, NIOSH-approved breathing apparatus. If contact with the material is anticipated, wear run protective clothing. Use water spray to keep fire-exposed containers cool.

#### VENTILATION

If misty conditions prevail, use local exhaust or a special fully enclosed system (e.g., hood) as an alternative. Natural ventilation is normally adequate in the absence of misty conditions.

#### NORMAL HANDLING

Do not get in eyes, on skin or clothing. Avoid breathing mist, if formed. Observe good personal hygiene and good housekeeping practices. Wash thoroughly after handling; do not smoke or eat while handling. Use with adequate ventilation.

#### JRAGE

Store at moderate temperatures out of the sun in a dry, well-ventilated area, away from foodstuffs. Keep containers upright, tightly closed and protect from physical damage.

# SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT - SECTION E)

Contain spill with readily available material (earth, sand, etc.) and recover, if possible. Otherwise, neutralize with sodium carbonate or other alkali and, using caution, flush with water, if permitted by applicable disposal regulations. Attempt to keep out of sewer. Mop or pump into suitable container, cover and label for storage or later disposal. Provide personal protection for personnel involved with clean-up operation.

#### SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS

#### SIGNAL WORD - DANGER!

Stannous fluoborate solution should not be handled in glass equipment. Drum closures should be removed carefully to relieve possible internal pressure. Do not pressurize drums and do not reuse drums when empty.

#### E. PERSONAL PROTECTIVE EQUIPMENT

#### RESPIRATORY PROTECTION

For low levels (< 10 x TLV) of mist, use NIOSH-approved dust or mist respirator. For intermediate levels of exposure (> 10 x but < 100 x TLV), use NIOSH-approved, full-face, air cleaning respirators for both lung and eye protection. For high levels, use NIOSH-approved, self-contained or supplied-air breathing systems.

#### EYES AND FACE

Under normal working conditions, wear chemical goggles; add a full-face plastic shield if solution may be splashed or sprayed and there is any possibility of liquid contacting the eyes. Do not wear contact lenses.

#### HANDS, AHMS, AND BODY

Wear impervious apron and gloves for routine product use. For increased protection, if repeated or prolonged contact with Ilquid is anticipated, wear impervious jacket and trousers. Remove promptly and wash any items upon contamination.

#### OTHER CLUTHING AND EQUIPMEN!

Provide eyewash stations and quick-drench shower facilities near all solution handling equipment.

# F PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS):	APPEARANCE AND ODOR		
■ LIQUID □ SOLID □ GAS	Clear, colorless solution; essentially odurless.		
<u> </u>	SPECIFIC GRAVITY	VAPOR DENSITY	
50121113 : 01111	PC   (H20 - 1)	(A!R - 1)	
Unknown	1,55 (approx.)	Not applicable	
MELTING POINT	PC		
SOLUBILITY IN WATER	DH	VAPOR PRESSURE (mm Hg at 20°C) [ PS KG)	
Complete	approximately 2 ·	Not applicable (water vapor only)	
EVAPORATION RATE	% VOLATILES BY VOLUME		
SOLAL MOSTER - TO TELLIAM - TO T	Not applicable		
Not applicable	(water vapor only)	ļ	
REACTIVITY DATA			
TABILITY	CONDITIONS TO AVOID		
UNSTABLE & STABLE	High temperatures (solution emits hazardous	mist).	
COMPATIBILITY (MATERIALS TO AVOID)		······································	
Stannous fluoborate solution is acidic and wi It may react vigorously with strong oxidizing	Il react with acid-incompatible materials; e.g., cya agents.	anides, sulfides.	
ZARDOUS DECOMPOSITION PRODUCTS			
itannous-fluoride,-boron_trifluoride_gas_(spec	ulative). Boiling yields a toxic mist containing sta	annous fluoborate.	
n dilute solution, some hydrolysis to hydrofi	uoric acid may occur.		

# H. HAZARDOUS INGREDIENTS (Mixtures Only)

WILL NOT OCCUR

HAZARDOUS POLYMERIZATION

☐ MAY OCCUR

MATERIAL OR COMPONENT/C.A.S. #	wT.%	HAZARD DATA (SEE SECT. J)
Not applicable.		
·		

CONDITIONS TO AVOID

None known.

3 Standing

# **LÑŶIRONMENTAL**

DEGRADABILITY/ADUATIC TOXICITY	OGTANGL/WATEH PARTITION COEFFICIENT UNKNOWN		
agradability: N.A. (inorganic)  Aquatic Toxicity: LC50 (rainbow trout): 80 mg/L/24 hrs; 78 mg/L/48  EC50 (Daphnia magna): 87 mg/L/24 and 48 hrs.	thru 98 hrs.		
EFA HAZARDOUS SUBSTANCE: TO SEE IF SO, REPORTABLE QUANTILLY		40 CFR 116-117	
Neutralize with caution, using any of the following agents: CaO; Ca of treated waste stannous fluoborate solution may be subject to teder operations in terms of applicable federal, state and local laws and regul before discharging or disposing of waste material. Waste may have to be	(OH)2; NaOH; KOH; Na2CO3. Do not sewer al, state and local regulations. Users should re ations, then consult with appropriate regulator	view their y agencies	
RCRA STATUS OF <u>UNUSED</u> MATERIAL IS DISCARDED  EPA "hazardous waste" (corrosive), if discarded.	HAZARDOUS WASTE NUMBER: (IF APPLICABLE) DO02	40 GFR 261	

#### J. REFERENCES

PERMISSIBLE CONCENTRATION REPERENCES

TWA: OSHA Standard, 29 CFR 1910 (1982). "Z List"

TLV: ACGIH 1984-85 List, "Threshold Limit Values for Chemical Substances..."

Biological Action Level; Allied/Signal Corporation; value in use at Metropolis, IL, plant.

Aquatic Toxicity Allied/Signal Corporation date, Report MA-29-78-1 (1983).

REGULATORY STANDARDS

DOT CLASSIFICATION

Corrosive material

49 CFR 173

I.D. No.: UN 1760 D.O.T. Classification by Allied Corp., Chemical Sector; Skin Corrosivity Test; Report No. MA-28-78-5 (1983).

GENERAL

- (a) NIOSH Criteria Document No. 76-103, "Occupational Exposure to Inorganic Fluoride", 1975, P8-246-692, NTIS.
- (b) ACGIH: "Documentation of TLVs", 4th edition,
- (c) Patty's "Industrial Hygiene and Toxicology", 3rd. ed., (1981-82), Vol. 2A.

#### K. ADDITIONAL INFORMATION

#### SECTION C - HAZARDS INFORMATION

Unusual Chronic Toxicity

We have no data on Stannous Fluoborate Solution, per se. However, NIOSH has linked certain other fluoborate compounds with inorganic fluorides [reference (a), above]. Chronic exposure to fluorides is associated with osseous fluorosis (increased radiographic density of bones, the mottling of teeth, etc.). [This condition will not develop if permissible exposure levels are not exceeded.]

Kidney damage, asthma and symptoms resembling rheumatism may also occur.

PSDS FILE - GC 3021

TO CHAIN YOUR SAFET IN DEFERRED SOLLLY FOR YOUR IN-ORMATION CONSIDERATION AND NOTES CONTINUE.

A NIPER OF THE ACTION OFFICE OF STOME APPRAINTIES STEAR EXPRESSION IMPLYIO AND AND AND AND AND THE RENEWAL FACTOR FACTOR FACTOR OF THE ACTION FOR THE PROPERTY.



Call Joseph Schiller at (612)403-0349 if you need assistance with this form.

1-1	MAJERIAL		
COMPANY NAME: #	al Mague	EPA ID.	
STREET ADDRESS: 5	the Contract	25.	
CITY STATE-ZIP: GREAT		88.38	
CONTACT NAME	ra Shears	PHONE 6/6 - 7	54-1219
MATERIAL CHARACTERIZATION		D IA D	•
NAME OF MATERIALS	lin- hand	Bath Solids	
PHYSICAL STATE: SCRA	P METAL WET SLU	dge dry sludge	SURRY
	DS IS S MOISIT		
ARE FREE LIQUIDS PRESENT?	•		
CHEMICAL ANALYSIS (WEIGHT PE	RCENT UNLESS INDICATED C	)THERWISE):	
MORRANICS			
NICKEL	CALCIUM	SULFATE	
COBALT	SODIUM	FLYORIDE	<u> </u>
CHROMIUM	PLATINUM	CHLORIDE	-
COPPER	PALLADIUM	OTHERS.	· · · · · · · · · · · · · · · · · · ·
ZINC	GOLD		
RON	SILVER	- Library	
VANADIUM	AMAMA	Marie Company	
CADMIUM	CYANIDE		
SIUCA (SAND)	DIA	TOMACEOUS EARTH	······································
pH (# APPROPRIATE)	SP. 0	GRAVITY (IF APPROP.)	
DMANCS:			
DOES MATERIAL CONTAIN: No	ne that we b	mour of	
CYANIDES	SULFIDES	PHENOLICS	
PCB'S	ASBESTOS	KNOWN CAR	• • • • •
EXPLOSIVES	POISONS	SUSPECT CAR	· · · · ·
PYRÓPHORICS	PESTICIDES/HERBICI	_ <del>_</del> _	HYDROCARSONS
	is tilleral a	end those so	
are coffeete	I can tilter	reper.	
IS THIS MATERIAL CURRENTLY BLIN	G MANAGED BY:		
RECYCLING? HOW, AND B	Y WHOM?		
DISPOSAL IN A SANITARY OF	R MUNICIPAL SOLID WASTE L	ANDRILT	
DISPOSAL IN A HAZARDOUS			
STORAGE IN PILES,		S, OTHER	?
CHEMICAL FIXATION OR STA	<del>-</del>	•	

U.S. EPA HAZARDOUS WASTE? YES NO PRESENTLY EXEMPT
F 'YES' LISTED WASTE, OR
CHARACTERISTIC WASTE?
EP TOXIC? REACTIVE?
CORROSIVE? IGNITABLE?
WHAT IS THE HAZARDOUS WASTE CODE? DOOZ / DOOS (If di
recycled and therefore not a solid waste parter &
IS MATERIAL SUBJECT TO CLASSIFICATION UNDER STATE CODES? YES NO
IF 'YES" GIVE STATE AND CODE:
ACCORDING TO U.S. EPA RORA REGULATIONS, IS THIS MATERIAL A: (Check only 2018)
SLUDGE X BY-PRODUCTSPENT MATERIALUNKNOWN
SCRAP METAL COMMERCIAL CHEMICAL PRODUCT
SHIPPING INFORMATION:
DOT INFORMATION:
HAZARDOUS MATERIAL? X YESNO
PROPER SHIPPING NAME: Corpo Sive
HAZARD CLASS: REPORTABLE QUANTITY:
U.N./NA# 1760 PACKING GROUP #
PLACARD REQUIREMENT: Yes
IS THERE A SHIPPING LABEL FOR THIS WASTE? (IF YES, ATTACH)
HAZARDOUS WASTE MANIFEST REQUIRED? FED REGSSTATE REGS
VOLUME: AMOUNT
PACKAGING: DRUMS BOXES NYLON BAGS BULK (Circle One)
IS THERE AN MSDS FOR THIS MATERIAL? (IF YES, ATTACH)
COMMENTS: (PLEASE PROVIDE ANY OTHER PERTINENT INFORMATION AND UST ANY ATTACHMENTS):
I CERTIFY THAT THE IDENTIFICATION OF THE MATERIAL OFFERED FOR RECYCLING AND DESCRIBED IN THIS PROFI
FORM AND ANY SUPPLEMENTS ATTACHED HERETO IS COMPLETE. TRUE AND ACCURATE: MY CERTIFICATION BASED ON MY PERSONAL KNOWLEDGE AND/OR INFORMATION SUBMITTED BY OTHERS RESPONSIBLE FOR OBTAININ
THE HYPORMATION ABOUT WHICH I HAVE MADE DILIGENT INQUIRIES TO SATISFY ME THAT IT IS COMPLETE.
Jamas heard 2/2/98
SIGNATURE DATE
DON'T NAME AND THE / ALLES SAME